Technical data sheet

011121MBA

Cored welding wire

ROBOFIL M 700



CLASSIFICATION

ASME IIC SFA 5.28 / AWS A 5.28 EN ISO 18276-A ASME IX Qualification E110C-K4 H4 T69 4 Mn2NiCrMo M M21 1 H5 QW-432 F-N° 6 QW-442 A-N° 12

DESCRIPTION

- · Seamless high fill coppered metal-cored tubular wire for semi- and fully automatic gas shielded arc welding
- Single and multipass welding of high yield strength steels
- Combines advantages of both seamless and seamed tubular wires
- H_{DM} guaranteed < $\tilde{4}$ ml/ 100g deposited metal over the whole parameter box
- No moisture pick up, excellent wire feeding properties, good weldability and low spatter

APPLICATIONS

High strength steels	S500QL – S690QL N-A-Xtra70, Weldox 700, HY80, HY100 T1, Superelso 700, Suprafort 700, Shoralsim 690
	ISO/TR 15608: Groups 1.2, 1.3, 2.2 and 3.1

APPROVALS

TÜV (10498.02)

TYPICAL ALL-WELD METAL ANALYSIS

C	Mn	Si	Cr	Ni	Мо
0.06	1.5	0.5	0.5	2.5	0.5

MINIMUM ALL-WELD METAL MECHANICAL PROPERTIES

Rm [MPa]	Rp0.2% [MPa]	A5 [%]	CVN [J]
770	690	16	-40°C: 47

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Rm [MPa]	Rp0.2% [MPa]	A₅ [%]	CVN [J]
820	760	17	-40°C: 60

SHIELDING GAS

EN ISO 14175: M21 (Ar + 15 - 25% CO₂)

OPERATING CONDITIONS

Diameter [mm]	Current type	Current [A]	Voltage [V]	Stick-out [mm]
1.2	DC+ Pulsed or not	100 - 350	15 - 35	12 - 25
1.4		120 - 400	15 - 35	12 - 25
1.6		130 - 450	15 - 35	15 - 25

ROBOFIL M 700 can be welded as well backhand (trailing) as forehand (pushing)

WELDING POSITIONS

ROBOFIL M 700 is primarily used in the flat and horizontal-vertical positions. However, welds in other positions are also possible using the short-circuiting or pulsed arc modes of transfer.

PACKAGING

Diameter	1.0 mm	1.2 mm	1.6 mm
		EN ISO 544 – ASME IIC SFA-5.2 M	
Spool type	BS300		
Weight	15 kg		

Other packaging and other diameters: please consult us

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.